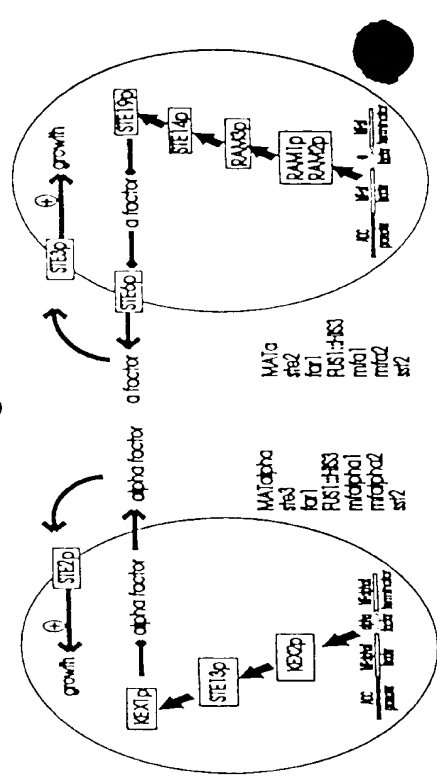
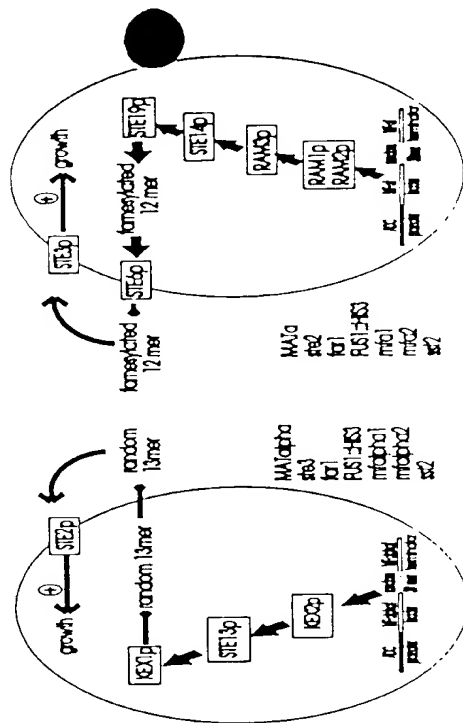


Synthesis, Release, and Targets of Mating Pheromones

Stage 2



Stage 3



Stage 1

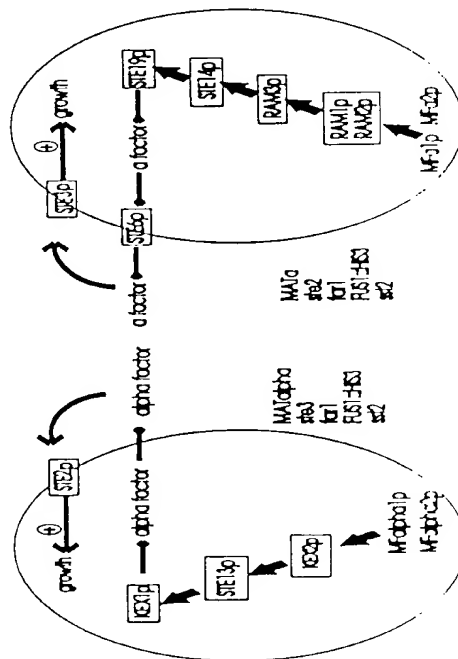


Figure 1

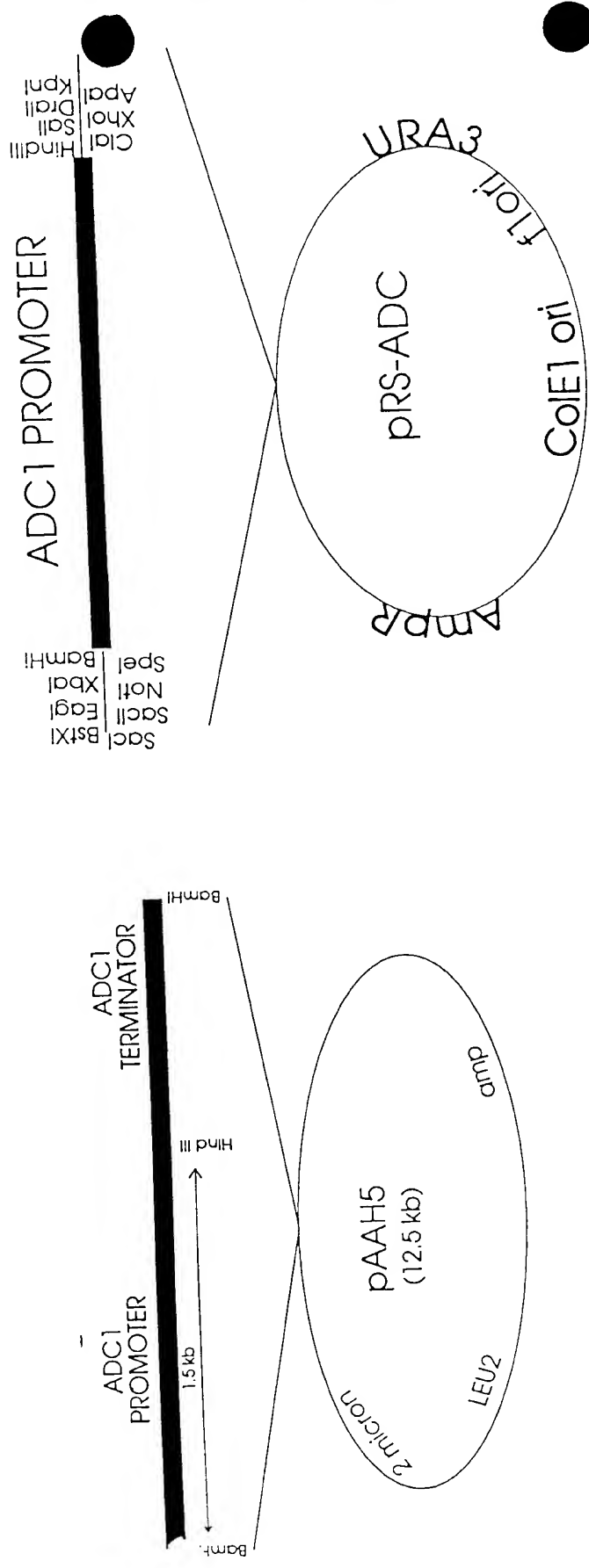


Figure 3. Structures of pAAH5 and pRS-ADC,

K R E A E A X₁₃ *

CGTGAAGC TTAAGCGTGAGGCAGAAAGCT(NNK)₁₃T GATCATCCG

AflII BclI

M

AAGCTTAAAGAATG
HindIII

leader
sequence

K E E G V S L L

XhoI

AAAGAAGAGGGGTATCTTTCCTTAAAGCTCGAGATCT
AflII BglII

transcript
terminator

AAGCTT
HindIII

BstXI
EcoRI
XbaI
BamHI

ADC1 PROMOTER

HindIII
ScaI
XhoI
BclI
KpnI

AMP^r
ColE1 ori
flori
URA³

Figure 4. Schematic diagram of the structure of the plasmid resulting from insertion of random oligonucleotides into pADC-MFalpha. This plasmid expresses random peptides in the context of the MFalpha1 signal and leader peptide.

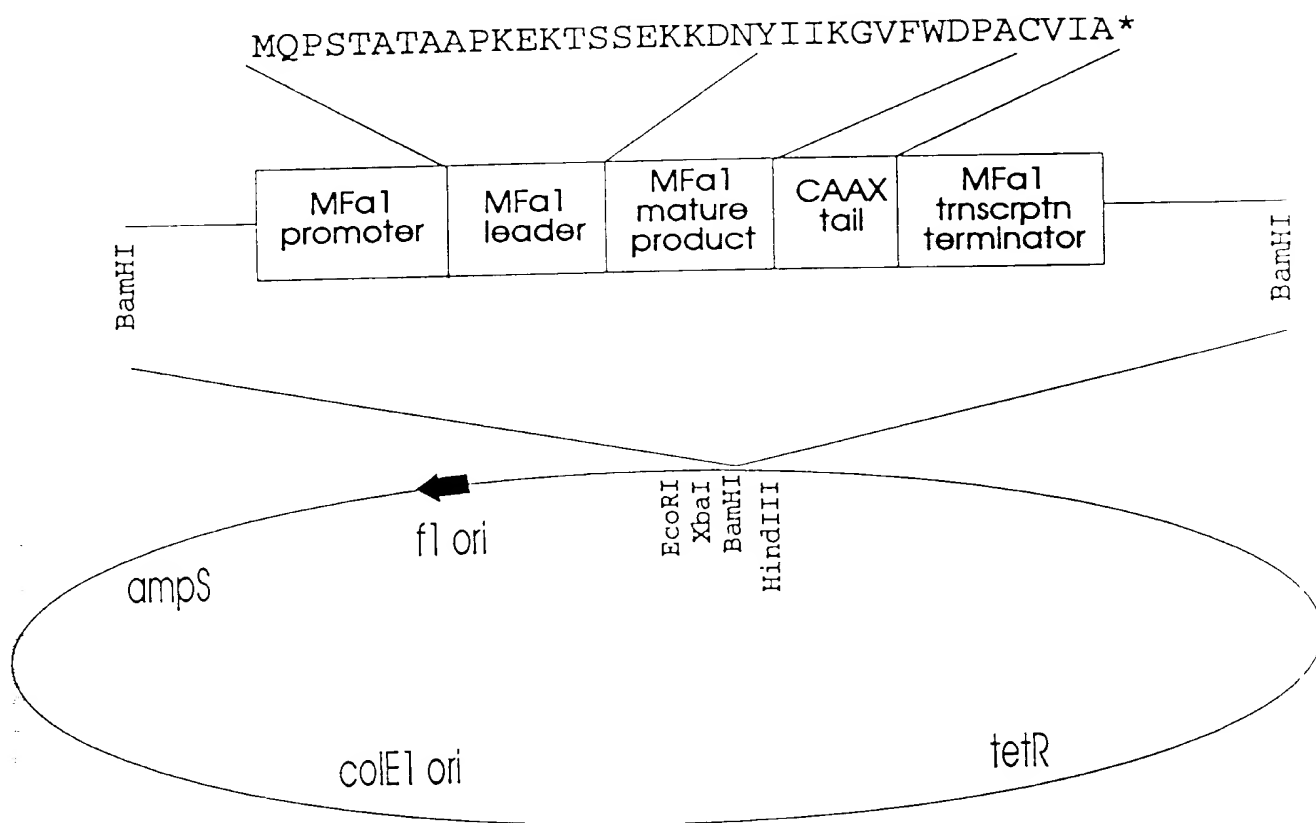


Figure 5. Schematic to illustrate: 1. the organization of MFa1; 2. the amino acid sequence of the MFa1 coding region; 3. the point of insertion of the fragment in pALTER.

S S E K K D N X₁₁ C V I A *

GGTAC TCGAGTGAAGAAGGACAAC (NNK)₁₁ TGTGTATTGCTTAA GTACG

AflII

XhoI

SacI

AflII

XhoI

GCCGCTCCAAAAGAAAGACC**TCGAGCTCGCTTAAG**

A A P K E K T S S

AAGCTT
HindIII

transcript
terminator

MFa1
leader

AGCTTTCGAATAGAAATG

M

HindIII

HindIII
SacI
XhoI
AflII

ADC1 PROMOTER

SacI
BstXI
SacII
EagI
XbaI
BamHI
SpeI

ClaI
XhoI
AflII

URA³

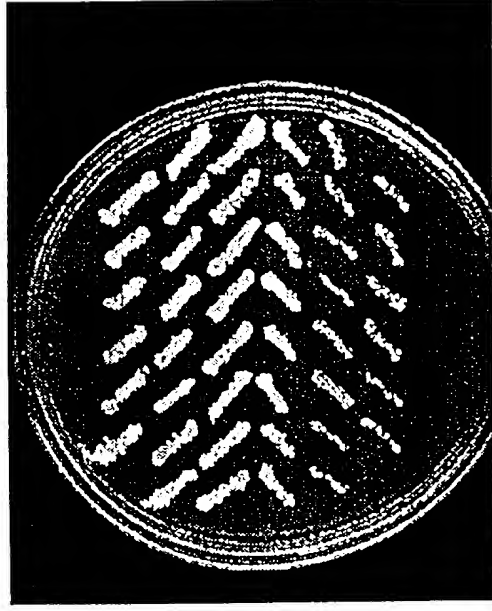
ColE1 ori

Figure 6. Schematic diagram of the structure of the plasmid resulting from insertion of random oligonucleotides into pADC-MFa. This plasmid expresses random peptides in the context of the MFa1 leader and C-terminal CVIA tetrapeptide.

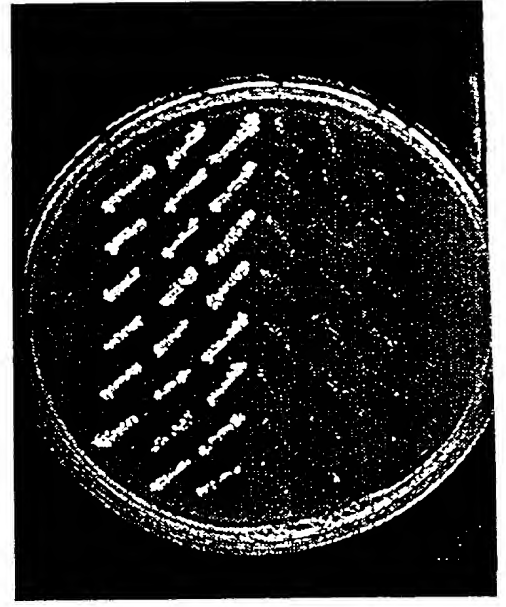
Figure 7

Autocrine Mata Strain Secretes and Responds to Signalling by alpha-Factor

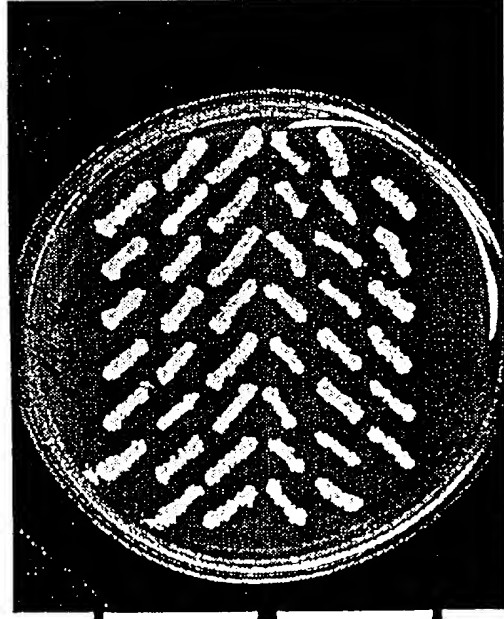
-HIS+1mM aminotriazole



-HIS+40mM aminotriazole



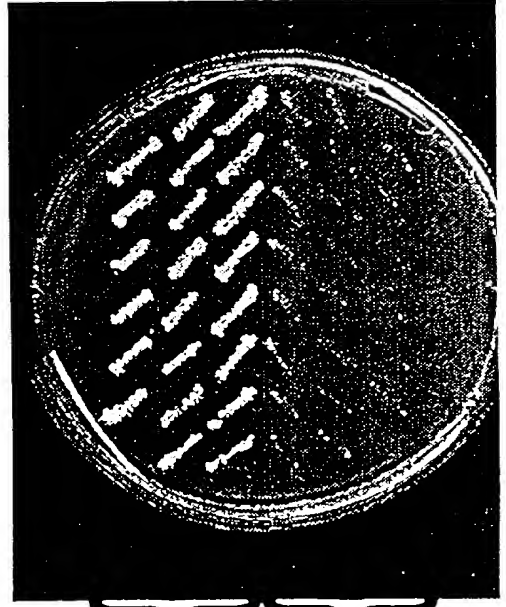
-HIS



vector
+ insert

empty
vector

-HIS+20mM aminotriazole



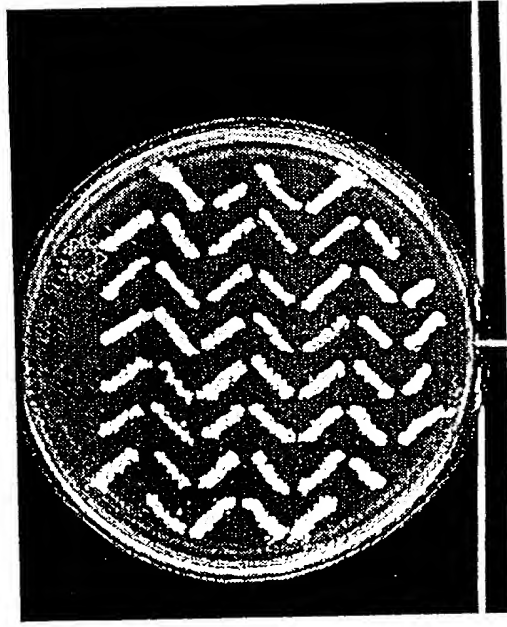
vector
+ insert

empty
vector

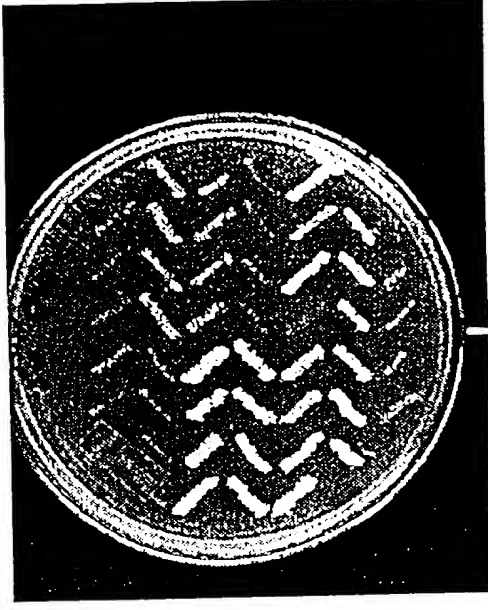
Figure 8

Autocrine MATa Strain Secretes
and Responds to Signalling by a-Factor

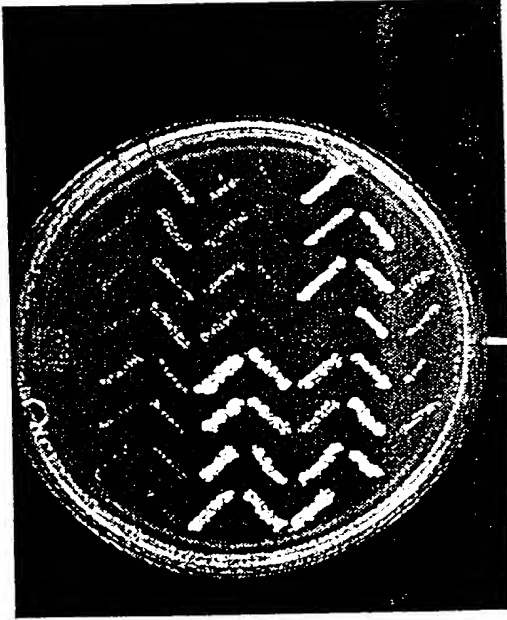
-HIS



-HIS+5mM aminotriazole



-HIS+10mM aminotriazole



-HIS+20mM aminotriazole



Figure 9. pYMA177 containing human MDR1 mutant (G185V mutation)

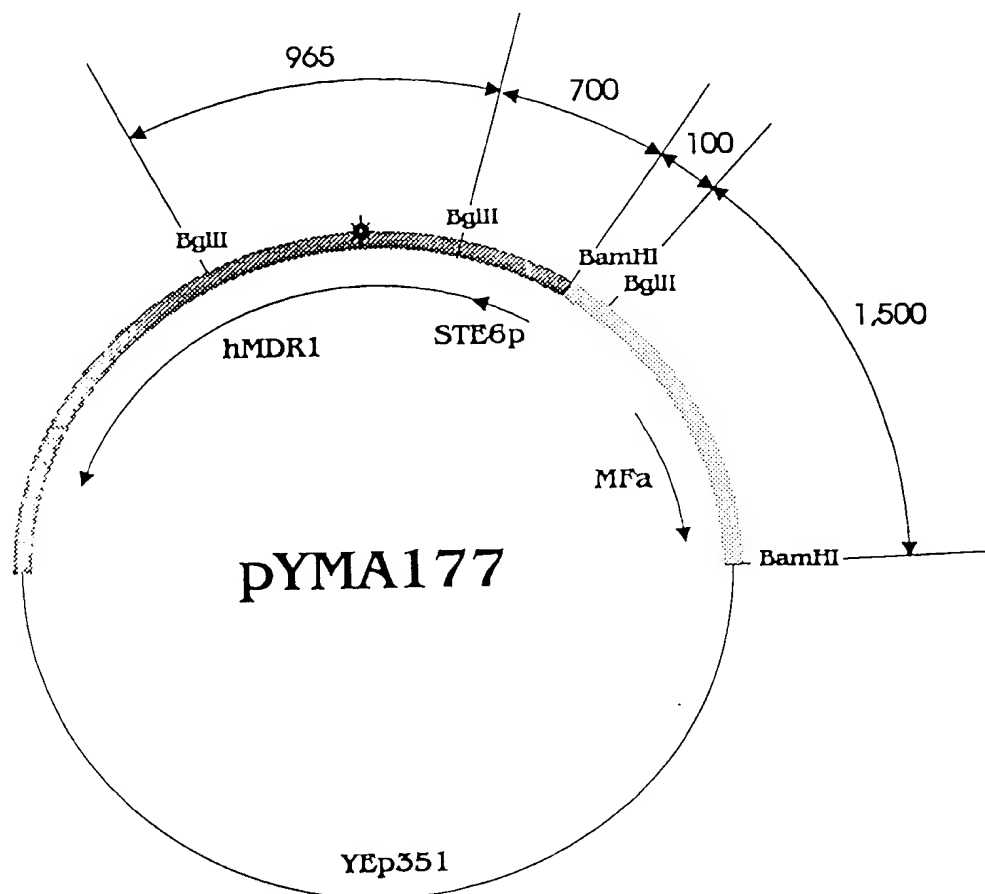


FIG. 10

Activity of a *fus1* promoter in response to signalling by human C5a expressed in autocrine strains of yeast.

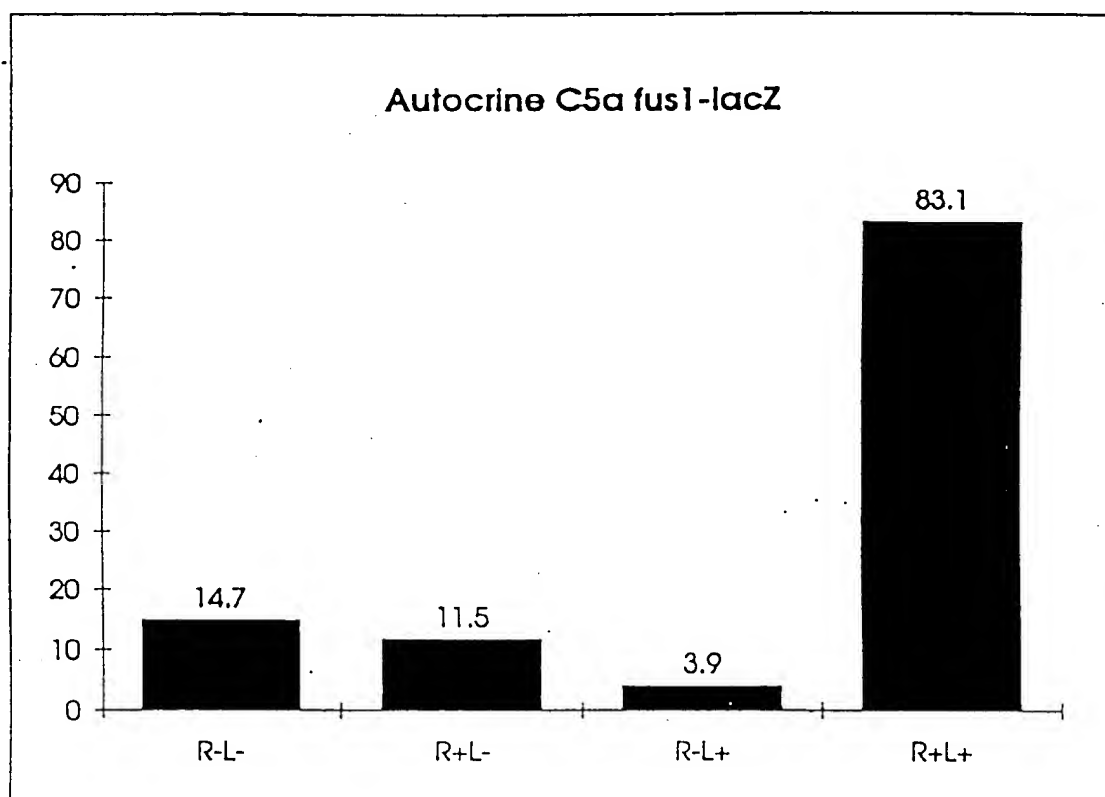


FIG. 11
G α switch region hybrids.

